Mirage 2000

Setting the benchmark for 3D projection

Christie's Mirage 2000 has revolutionized the virtual reality and simulation market, setting the benchmark for stereoscopic digital projection. Based on high-resolution SXGA 3-chip DLP™ technology, the Mirage 2000 is the most economical SXGA 3D projector of its kind.

The Mirage 2000 offers new levels of brightness and image through Christie-designed electronics that provide high bandwidth, frame rates, pixel and clock speeds resulting in the most advanced digital signal processing for all types of stereo images.

This design employs dark interval adjustments (DIA™) control that enhances the overall stereo effect by fine-tuning the critical timing between left and right fields. It also features Primary Color Adjustment (PCA™) – ensuring true color representation of all source images.

The Mirage 2000's DMD™ technology is inherently faster that LCD and has the ability to synchronize the left and right fields required for stereo imaging without time lag, ghosting or other artifacts – resulting in more accurate color reproduction and uniformity.

Christie's own advanced optical alignment technique, known as Spatial Light Imaging Construction (SLIC™) – features the new dark metal DMDs for improved black level and contrast ratio.

With the built-in Stereo 3D® interface module, users are able to view stereoscopic 3D images with active shutter glasses or, with passive polarized eyewear, making the Mirage 2000 versatile, economical and cutting-edge.

Recreate Reality…with Mirage!

- **Single Projector Active Stereoscopic Solution**
- **3-Chip DMD™ Optical System featuring new Dark Metal DMDs**
- **2000 ANSI lumens**
- **SXGA resolution**
- **PCA™ (Primary Color Adjustment)**
- **SLIC™ (Spatial Light Imaging Construction)**
- **3D® Stereo Module**
- **LiteLOC™ Contrast brightness tracking**
- **DIA™ (Dark Interval Adjustment)**

APPLICATIONS

- Immersive Environments
- 3D Computer-aided Design
- Virtual Reality
- Vis Sim
- Simulation

CHRISTIE

Project. Present. Perform.

Mirage 2000 • Specifications

Brightness
- 2000 ANSI lumens
- Over 90% brightness uniformity

Contrast Ratio (1.5-2.2:1 zoom lens)
- 300:1 ANSI; 800:1 Full Field

Resolution
- True SXGA 1280 x 1024 chip resolution
- 16.7 million displayable colors
- Christie's 3-DMD™ Optical System (SLIC™) featuring new Dark Metal DMDs for improved black level and contrast ratio
- 13-bit user selectable gamma table

Horizontal Frequency
- 15kHz to 120kHz

Vertical Frequency
- 24 Hz to 120 Hz

Dot Clock
- 160 MHz

Enhanced Feature Set
- Constant brightness tracking (LiteLOC™ - Light Output Control)
- Variable lamp power from 350 to 500W
- Brightness uniformity control
- Intuitive on-screen display (OSD)
- Service functions can be password protected
- Multiple language support
- 100 channel memories
- Built-in Stereo 3D® interface module
- Primary Color Adjustment (PCA™)
- Dark Interval Adjustment (DIA™)
- Auto set-up feature

Control/Networking
- Auto power-up
- Dual RS232 and dual RS422 communication port
- IR Remote keypad
- Front and rear IR receiver

Optional Accessories
- Wired two-way remote controller (RS422) with LCD display
- Remote IR sensor
- Replacement lamp module
- Multi-standard video decoder (NTSC 3.58, NTSC 4.43, PAL, PAL 60, PAL M, PAL N, SECAM)
- DVI/DFP module
- Digital HDTV module (SMPTE 292)
- Vista compatible analog input modules
- Compatible with selected third party switchers
- Service manual
- Librarian communication software
- Arbitrary Gamma Table Software
- Wired remote backlit keypad
- Motorized lens mount upgrade
- Serial Digital Input (SMPTE 259M / CCIR 601)
- 10-bit ADP (Advanced Digital Processing) used in non-stereo mode
- Transit case

FEATURES

- *Built-in 3D® Stereo interface module enables users to view 3D images in both active and passive modes.*

- *The Mirage 2000's DMD™ technology is inherently faster than LCD.*

- *Christie's own Spacial Light Imaging Construction (SLIC™) guarantees optimum focus and convergence accuracy.*

Field Interchangeable Optional Lenses
- 1.2:1 Fixed Short Throw
- Zoom lenses: 1.5-2.2:1, 2.2-4:1 and 4-7:1
- Fixed lens mount with horizontal and vertical lens offset, focus and zoom adjustment
- Screen size 72" to 480" (1.8m – 12.2m) diagonal image size (lens dependent)
- Compatible with VistaGRAPHX 0.8:1, 2.5-4:1, 4-7:1 with adapter
- Built-in light shutter
- Lens mount tilt adjustment
- Up to 130% of vertical lens offset
- Up to 80% of horizontal lens offset

Dynamic Scaling
- Resizing processing for computers and workstations up to 1600 x 1200 resolution
- Independent horizontal and vertical image size adjustment for graphics and video

Inputs
- Input 1: Analog RGB 5 BNC for RGBHV, YPrPb, YCbCr and YUV
- Input 2: Optional plug-in input modules
- Separate, composite sync and sync-on-green compatible
- HDTV Tri-level sync compatible for all known HDTV formats

Stereoscopic Source Compatibility
- Active stereo SXGA with vertical refresh rates up to 108Hz with one field delay, without frame dropping
- In 3D mode, horizontal frequency: 111kHz maximum

Note: in 3D mode, inputs must be in RGB or Digital Flat Panel (Optional module)

- Optional 2-way controller RS422
- Built-in backlit keypad

Lamp Specification
- 500W CERMAX Xenon® lamp
- Color temperature range 3200K to 9300K
- Over 1000 hours of lamp life
- User replaceable lamp
- Pre-aligned lamp module

Power Requirements
- Voltage range: (auto-switching) AC 100-220V +/- 10%
- Line frequency: 50 - 60 Hz nominal
- Power consumption: 900W maximum
- In-rush current rating: 50A maximum
- Current rating: 9 Amps maximum at 100VAC
- Thermal dissipation: 3070 BTU/hr

Environmental
- Operating temperature: 0 - 35° C
- Operating humidity: 20 - 80% non-condensing

Diagnostics
- Built-in diagnostics LCD display indicates operational status and error messages
- Power and status LEDs
- Full diagnostics through RS232 9-pin D connector

Size and Weight
- 88 lbs (39.9 kg)
- 24.48" W x 30.19" L x 11.88" H
- 64.8cm W x 76.7cm L x 30.2cm H

Standard Accessories
- IR wireless remote (with 4AA batteries)
- 8' line cord
- User manual with warranty card

Regulatory Approvals
- Safety: CSA C22.2 No. 950, UL 1950, EN609050 European Norm "Safety of Information Technology Equipment"
- Complies with relevant worldwide EMC and safety standards
- The product complies with FCC Class A and EN55022 Class A requirements
- This product conforms to all relevant European directives, standards, safety, health and environmental concerns and bears the CE marking

Warranty
- 1 year parts and labor
- Accessories: One year

Due to constant research, specifications are subject to change without notice.

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Head Offices

USA
10550 Camden Drive
Cypress, CA 90630
PH: +714-236-8610
FX: +714-503-3385
Toll free: (800) 407-7727 (NA only)
sales-us@christiedigital.com

CANADA
809 Wellington Street North
Kitchener, Ontario N2G 4Y7
PH: +519-744-8005
FX: +519-749-3136
Toll free: (800) 265-2171 (NA only)
sales-canada@christiedigital.com

Branch Offices

UNITED KINGDOM
PH: +44 118 977 8000
FX: +44 118 977 8100
sales-europe@christiedigital.com

SINGAPORE
PH: +65 6877-8737
FX: +65 6877-8747
sales-singapore@christiedigital.com

FRANCE
PH: +33 (0) 1 47 48 28 07
FX: +33 (0) 1 47 48 26 06
Mobile: +33 (0) 6 76 47 43 62
sales-france@christiedigital.com

GERMANY
PH: +49 2161 664540
FX: +49 2161 664546
sales-europe@christiedigital.com

CHINA
PH: +86 21 6278 7708
FX: +86 21 6278 7707
sales-china@christiedigital.com

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